

MATERIAL SAFETY DATA SHEET - MSDS

Efficacious Ingredients * Hygienically Stored & Processed * Convenient Deliveries

Product Name: Siligel

INCI: Xanthan Gum & Lecithin & Sclerotium Gum & Pullulan

CAS numbers: 11138-66-2, 8002-43-5, 39464-87-4, 9057-02-7

EC numbers: 234-394-2, 232-307-2, 254-464-6, 232-945-1

Recommended Use. Raw Material For Topical Cosmetic Products

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SECTION 1: GENERAL INFORMATION AND CHEMICAL PRODUCT IDENTIFICATION

Chemical Name CAS # 11138-66-2, 8002-43-5, 39464-87-4, 9057-02-7

SECTION 2: HARZARD INDENTIFICATION

Classification:

GHS / CLP

Basis for Classification: Based on present data no classification and labeling is required according to GHS, taking into account the national implementation (United Nations version 2011)

USA

OSHA Regulatory Status: This material is non-hazardous as defined by the American OSHA Hazard Communication Standard (29 CFR 1910.1200).

Europe

Basis for Classification: According to present data no classification and labeling is required according to Reg. (EC) No 1272/2008.
This product is not classified as hazardous to

health or environment according to the CLP regulation.

Labeling Elements:

Pictograph: No hazard symbol
expected

Hazard statements/Signal Word: Not applicable

Precautionary statements: P233: Keep container tightly closed
P281: Use personal protective equipment as required
P402: Store in a dry place
P404: Store in a closed container
P410: Protect from sunlight
P411: Store at temperatures not exceeding 25°C

Other hazards which do not result in classification:

No particular fire or explosion hazard.

By mechanical effect: No particular hazards.
By hygroscopic effect: No particular hazards.

US NFPA 704 (National Fire Protection Association) Hazard Rating System:

Health hazard: Rating 0; Normal
Flammability: Rating 0, Will Not Burn
Reactivity: Rating 0, Stable
Other Hazards: None

SECTION 3: INFORMATION ON INGREDIENTS

Common Name: Xanthan Gum & Lecithin &

Sclerotium Gum & Pullulan

Generic name: Siligel

Chemical Family: Mixture

Description: Mixture: consisting of the following components. This section describes all components of the mixture

<u>Substance</u>	<u>CAS Numbers</u>	<u>EC Numbers</u>
Xanthan Gum	11138-66-2	234-394-2
Lecithin	8002-43-5	232-307-2
Sclerotium Gum	39464-87-4	254-464-6
Pullulan	9057-02-7	232-945-1

SECTION 4: FIRST AID MEASURES

General:	In all cases of doubt, or when symptoms persist, seek medical attention.
Inhalation:	Move to fresh air from exposure area. Get medical attention for any breathing difficulty.
Skin contact:	Rinse with soap and water. Get medical advice if irritation develops.
Eye contact:	Immediately rinse with plenty of water for at least 15 minutes, while keeping the eyes wide open. Consult with a physician.
Ingestion:	Consult with a physician.
Protection of first aiders:	No special protection required.

SECTION 5: EXPLOSION AND FIRE-FIGHTING MEASURES

Fire and explosion hazards:	Not considered to be a fire and explosion hazard
Extinguishing media:	
Suitable:	Dry chemicals, foam and carbon dioxide
Not suitable:	None known
Firefighting:	Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low area
Protection for fire-fighters:	Boots, gloves, goggles.
Hazards arising from the chemical:	In the action of heat or during combustion, may form toxic and irritating vapors (carbon oxides (CO and CO ₂) and nitrogen NO _x).

SECTION 6: ACCIDENTAL RELEASE/SPILL PROCEDURES

Personal precautions:	Avoid contact with eyes.
	Personal Protective Equipment: -Protective goggles
Environmental precautions:	Prevent entry into sewers and waterways. Do not allow material to contaminate ground water system
Methods for cleaning up:	

Recovery: Pick up free liquid for recycling or disposal. Residual liquid can be absorbed on an inert material. Sweep or vacuum up any powder and place in a clearly labeled waste container, avoiding dust formation.

Cleaning/Decontamination: Wash non-recoverable remainder with water.

Disposal: For disposal of residues refer to sections 8 & 13

SECTION 7: HANDLING AND STORAGE

Handling

Technical measures: Hygroscopic powder. Labeling: Keep out of the reach of children.
Measures: For industrial use, only as directed.
Safe handling advice: Close packaging well after use. Ensure adequate ventilation. Avoid contact with skin and eyes. Wash hands after use. Avoid storage near feed or food stuff. No smoking.

Storage

Technical measures: Keep container closed.
Recommended Storage Conditions: Store in a dry place at temperatures not exceeding 25°C. Protect from light and humidity.

Incompatible products: Avoid contact with strong oxidizers.
Refer to the detailed list of incompatible materials (Section 10 Stability/Reactivity)

Packaging: Product may be packaged in normal commercial packaging.

SECTION 8: PERSONAL PROTECTION

Precautionary statements: Ensure adequate ventilation

Control parameters

Occupational exposure Limits:

France: Not Determined
ACGIH: Not Determined
Korea: Not Determined
UK: Not Determined

Surveillance procedures: Not Determined
Engineering measures: Not Determined

Personal Protective Equipment:

Respiratory protection: In case of good ventilation no personal respiratory protective equipment is required. If dust occurs: anti-dust mask P1 type (EN 143).

Hand protection: Protective gloves made of rubber. The protective gloves must comply with the specifications of EC Directive 89/686/EEC and the resultant standard EN 374.

Eye protection: Safety glasses.
Skin and Body Protection: Suitable protective clothing
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

Measures related to the Environment: No measures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Powder
Color (Gardner): Off White
Odour: Characteristic
Auto-inflammation temperature: Not determined
Partition Coefficient (n-octanol/water): Not determined

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable at temperatures lower than 25°C and under ordinary conditions of use and storage. Avoid humidity.

Hazardous reactions: None known

Conditions to avoid: No dangerous reactions known under use of normal conditions. Avoid extreme heat.

Materials to avoid: Strong oxidizers, strong acids and bases.

Hazardous decomposition products: During combustion or thermal decomposition (pyrolysis), it may release toxic and irritating vapors (NO_x, CO, CO₂) and various hydrocarbon fragments.

SECTION 11: TOXICOLOGICAL INFORMATION

Dermal: Non-Irritant (48 hour occlusive single patch test)
Ocular: Moderately Irritant (HET-CAM)

Acute toxicity data: Not Determined – According to our knowledge, no specific risk when handled. in accordance with good occupational hygiene and safety practices.

Sensitization: Non-Sensitizer (OECD 442D)
h-CLAT: Sensitizing (OECD 442E)

Mutagenicity: Non-Mutagenic (AMES OECD 471)
Phototoxicity: No phototoxic potential could be expected

The following data refer to Xanthan Gum:

Acute toxicity: > 45,000 mg/Kg (LD50, rat, oral)
> 1,000 mg/Kg (LD50, mouse, oral)
> 20,000 mg/Kg (LD50, dog, oral)

The following data refer to Lecithin:

Acute toxicity: > 16,000 mg/Kg – Not toxic (LD50, rat, oral, CIR report (IJT 20(S1): 21-45,2001)

The following data refer to Sclerotium Gum:

Acute toxicity: Short feeding studies with rats and dogs have not shown any signs of toxicity

The following data refer to Pullulan:

Acute toxicity: > 14,280 mg/Kg (LD50, mice, oral)

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Effects on the aquatic environment: > 1 g/L (EC50, *Daphnia magna*, 48h, OECD 202)
> 100 mg/L (ErC50, *Pseudokirchnerella subcapitata*, 72h, OECD 201)

Biodegradability:

Persistence: Easily biodegradable (OECD 301 D)

Bioaccumulation:

Octanol / water partition coefficient: Not Determined

The following data refer to Xanthan Gum:

Ecotoxicity:> 100 mg/L (EC50, *Daphnia* (*Daphnia magna*), 48h, OECD 202)

Biodegradability: Easily biodegradable (86.94% in 8 days, OECD 301 A)

The following data refer to Lecithin:

Biodegradability: Easily biodegradable (OECD 301D)

The following data refer to Sclerotium Gum:

Ecotoxicity:> 100 mg/L (EC50, *Daphnia* (*Daphnia magna*), 48h, OECD 202)

Biodegradability:Easily biodegradable (98.2% in 28 days, OECD 301 A)

The following data refer to Pullulan:

Ecotoxicity:117.5 mg/L (EC50, *Daphnia* (*Daphnia magna*), 48h, OECD 202)

Biodegradability: Easily biodegradable (94.5% in 28 days, OECD 301 A)

SECTION 13: DISPOSAL CONSIDERATIONS

Residues from product

Prohibition: Do not allow the product to be released into the Environment.

Destruction/Disposal: Dispose of in accordance with relevant local regulations Waste disposal according to EC directives 75/442/EEC and 91/689/ECC on waste and hazardous waste in their latest versions.

Contaminated packaging

Decontamination/cleaning:

Destruction/Disposal: Empty and non-polluted packaging may be recycled.

Note: Take all necessary precautions when disposing of this product according to local regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number: None

UN Shipping Name: None

Transport Hazard Class: Not classified as dangerous for transport

Land (rail/road):
ADR/RID Material is not restrictive for land transport and is not regulated by

Sea:
IMO/IMDG Material is not restrictive for sea transport and is not regulated by

Air:
ICAO/IATA Material is not restrictive for air transport and is not regulated by

Marine Pollutant: No

Transport/Additional Information: Not regulated for US DOT Transport in non-bulk containers
This material is not dangerous or hazardous

Special Precautions for User: None known

The above regulatory prescriptions are those valid on the date of publication of this sheet. However, given the possible evolution of transport regulations for hazardous materials and in the event of the MSDS in your possession dating back more than 12 months, it is advisable to check their validity with your sales office.

SECTION 15: REGULATORY INFORMATION

Labeling:

EC regulations: This product does not need to be labeled in accordance with EC Directives or respective national laws

Further regulations

Other regulations:

EINECS inventory status:	Xanthan Gum:	234-394-2
	Lecithin:	232-307-2
	Sclerotium Gum:	254-464-6
	Pullulan:	232-945-1
TSCA inventory status:	Exempt	
AICS inventory status:	Not Listed: 39464-87-4	
	Listed: 11138-66-2 & 8002 43-5 & 9057-02-7	
Canadian (CEPA DSL) inventory status:	Listed as Xanthan gum (DSL) & Lecithins (DSL) & Scleroglucan (DSL) & xanthn gum	
Japan (MITI list):	Xanthan Gum & Lecithin & Sclerotium Gum & Pullulan	
Korea:	Xanthan Gum & Lecithin & Sclerotium Gum & Pullulan	

Other regulations:

China inventory status:	Xanthan Gum & Lecithin & Sclerotium Gum & Pullulan
Philippines inventory status: (9057-02-7)	Not Listed: Sclerotium Gum (39464-87-4) & Pullulan
	Listed as Xanthan gum & Lecithins

*Listed on 2010 INCI Standard Chinese Name Directory

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the products described in this sheet. The user's attention is drawn to the possible existence of additional provision which complete these regulations. Please refer to all applicable international, national and local regulations and provisions

SECTION 16: OTHER INFORMATION

DISCLAIMER

Technical information and suggestions for use including any formulations and / or procedures are believed to be correct. However, this does not constitute a guarantee of the accuracy of the information contained herein. Confirming tests in your own laboratory or facility are recommended. This information is for general research purposes only and is not a representation or warranty of any kind. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use. The information contained in this certificate of analysis and material safety data sheet are obtained from current and reliable sources. As the use(s) of this product is outside the control of skin foodie, no representation or warranty, expressed or implied is made as to the effect(s) of such use(s) (including damage or injury), or the results obtained.

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